

# PATENT SPECIFICATION

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## (54) IMPROVEMENTS IN OR RELATING TO AN ANABOLISANT WITH STHENIC EFFECT

(71) I, MADELEINE TIXIER, born SILBER, a French citizen of 37 avenue d'Iena, Paris 16ème, France, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The invention relates to anabolisants and provides a novel anabolisant composition having a sthenic effect.

The composition of the invention comprises a protidic anabolisant comprising in combination:

- a hemopoietic extract of liver;
- vitamin B<sub>1</sub>;
- vitamin B<sub>2</sub>;
- cyanocobalamine (vitamin B<sub>12</sub>);
- lysine pantothenate; and
- arginine pantothenate, in an aromatic preservative excipient.

The invention preferably comprises a therapeutic composition in unit dosage form, each dosage form comprising:

- hemopoietic extract of liver in the form of a paste (25% by weight water content) 1.50 g
- 30 cyanocobalamine (vitamin B<sub>12</sub>) 100 gammas
- vitamin B<sub>1</sub> 0.010g
- vitamin B<sub>2</sub> 0.005g
- lysine pantothenate 0.30 g
- 35 arginine pantothenate 0.30 g
- aromatic preservative excipient to 10 ml

The anabolisant of the invention is suitable for the treatment of the following:

- (i) in adults: convalescences, physical and physical asthenia, postantibiotherapeutic asthenia, hepatic affections with hypo-

- proteinaemia, pregnancy and lactation;
- (ii) in old people: asthenia of all kinds, hypoproteinaemia by nutritious deficiency, lacks of balance to due to glucidic overloads, muscular reductions and osteoporosis; and
- (iii) in children: anorexia, recovery of infectious diseases, hypotrophies, and slow growth.

The preferred dosage for adults and old people is from 1 to 3 of the above unit dosages per day, taken between meals with water, and for children and infants is from ½ to 1 of the above unit dosages per day, according to age, suitably taken in milk or sugared water.

The invention is illustrated by the following Examples, which indicate the effect of the anabolisant of the invention on a number of patients. In the Examples each of the ampoules used contained one unit dosage form of the composition of the invention.

### Example 1

The patient was male, 44 years old.  
 Examination of the patient before treatment:

weight 60 kg  
 size 1.75 metres

The asthenia was so important that the patient could not walk without help though there was no evidence of polyneuritis of the lower limbs. There was particular anorexia with respect to meat. Had lost 7 kg in six months.

### Treatment

one ampoule of the anabolisant of the invention, morning, noon and evening, for 15 days.

Result obtained after treatment  
 clinical and biological improvement, increase

[Price 25p]

of red blood corpuscles. The leucocyte formula tended to become normal. Distinct physical improvement; increase in weight and appetite.

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#### Example 2

The patient was female, 55 years old. Examination of the patient before treatment:

10

weight 52 kg  
size 1.55 metres

15

The most important affection was asthenia. In fact, even with the patient's cooperation and will, she had a distinct weariness, with dyspnoea and tachycardia, and could not support more than a few minutes kinesitherapeutic treatment.

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#### Treatment

one ampoule of the anabolisant of the invention at morning and noon for 15 days.

25

Result obtained after treatment. the total stoppage of asthenia allowed a normal re-education, causing important functional improvements including an improvement in walking.

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#### Example 3

The patient was female, 83 years old. Examination of the patient before treatment:

weight 68 kg  
size 1.74 metres

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Asthenia was particularly important after re-education treatment, which left the patient exhausted for several hours. Small psychical troubles: the patient had a difficulty in holding her attention.

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#### Treatment

one ampoule of the anabolisant of the invention at morning, noon and evening for ten days.

45

Result obtained after treatment very distinct improvement of asthenia, the re-education treatment was well tolerated. The attention level was substantially increased. The patient can practically have a normal existence and returned to her home.

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#### Example 4

The patient was male, 26 years old. Examination of the patient before treatment:

weight 55 kg  
size 1.85 metres

The patient showed thinness, global anorexia causing a denutrition with eschars

at the supporting areas, and had a severe depressive condition. 55

#### Treatment

one ampoule of the anabolisant according to the invention at morning, noon and evening for ten days.

Result obtained after treatment 60  
the anorexia progressively disappeared. The re-education improvements, remaining very low previously became accelerated and the patient became able to make some simple movement. The eschars were under cicatrization. The weight increased by 3 kg in the ten days. The depressive condition improved. 65

#### Example 5

The patient was male, 79 years old. Examination of the patient before treatment: 70

weight 64 kg  
size 1.64 metres

The patient had asthenia and remained all day long in an arm-chair. He had a poor appetite. 75

#### Treatment

one ampoule of the anabolisant of the invention at morning and noon for ten days.

Result obtained after treatment 80  
complete retrogression of the asthenia. The patient walked again, and his appetite returned.

#### Example 6

The patient was 64 years old. Examination of the patient before treatment: 85

weight 50 kg  
size 1.61 metres

Global anorexia, concerning mainly meats and fats, caused a major asthenia shown by the refusal of re-education. The patient could only walk supported by two persons and had difficulties with memory. 90

#### Treatment

one ampoule of the anabolisant of the invention, at morning and noon for ten days. 95

Result obtained after treatment 100  
spectacular improvement of the general condition. Substantial improvements for walking, which became possible with the use of sticks. The anorexia is small and the patient, again, had a taste for meat. The weight started to increase.

## WHAT I CLAIM IS:—

- |    |  |  |            |    |
|----|--|--|------------|----|
|    | 1. A protidic anabolisant comprising in combination:                           | content)<br>cyanocobalamine (vitamin B <sub>12</sub> ) | 1.50 g     |    |
|    |  | vitamin B <sub>1</sub>                                 | 100 gammas |    |
| 5  | a hemopoietic extract of liver;  | vitamin B <sub>2</sub>                                 | 0.010g     |    |
|    | vitamin B <sub>2</sub> ;   | lysine pantothenate                                    | 0.005g     | 20 |
|    | cyanocobalamine (vitamin B <sub>12</sub> );                                    | arginine pantothenate                                  | 0.30 g     |    |
|    | lysine pantothenate; and   | aromatic preservative excipient to 10 ml               |            |    |
| 10 | arginine pantothenate, in an aromatic preservative excipient.                  |  |            |    |
|    | 2. A therapeutic composition in unit dosage form, each dosage form comprising: |  |            |    |
|    | hemopoietic extract of liver   |  |            |    |
|    | in the form of a paste   |  |            |    |
| 15 | (25% by weight water   |  |            |    |

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